IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: LEONINI, Luciano

SERIAL NO.:

(International Serial No.PCT/EP2004/014156)

FILED:

Herewith (International Filing Date: 10 November 2004)

TITLE: DESTEMMING DEVICE AND METHOD FOR HARVESTING MACHINES

REMARKS ON PRELIMINARY AMENDMENT

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

Sir:

In conjunction with the filing of the present application, and prior to an initial Official Action

on this matter, please amend the above-identified application as provided in the attached Marked Up

Copy and Substitute Specification.

Please note that the following amendments in the Substitute Specification apply to the

attached specification and claims labeled for "U.S. filing". This combined application incorporates

the original application and any amendments or annex to the International Application in the proper

order, including the correct original and substitute pages, claims and drawing sheets.

In this preliminary amendment, please consider the following remarks in conjunction with

the amendments to the above-identified application as follows:

REMARKS

The present Preliminary Amendment has been entered for the purpose of placing the

application into a more proper U.S. format. In particular, certain grammatical and idiomatic

inconsistencies have been corrected by amendment to the specification, and the application is

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corrected for certain typographical errors found in the originally submitted application. No new matter has been added by these amendments. The present application incorporates the original filing including any amendments made in the international filing. There was no amendment in the International Application, and there is no annex to the International Preliminary Examination Report even though there was an IPER. The IPER considered the claims as originally filed. The specification is an English translation of an originally French language document.

The Claims have been amended so as to conform with U.S. requirements and so as to remove multiple dependent claims. The Abstract has been amended so as to conform to U.S. filing requirements.

Applicant respectfully requests that the present Amendment be entered prior to an initial Official Action on the present application.

5.2.06

Date

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CLAIMS

I claim:

1. (Currently amended) Destemming method applicable to harvesting machines characterized in that the following takes, taking place in succession, when feeding the rough harvest between the a sloping end of the harvest conveyors (4) and the harvest collection bowls (3) on said harvesting machines, said method comprising:

- in a first step, extracting of the juice and the grapes detached from the stems by the a crop package (1); and

- in a second step, picking-off of the grape bunches not already destemmed that form the <u>a</u> remaining part of the <u>said</u> rough harvest.

2. (Currently amended) Destemming device intended to be installed on a harvesting machine between the <u>a</u> sloping end of the harvest conveyors (4) and the harvest collection bowls (3) on said <u>harvesting</u> machine, characterized on that it comprises <u>said destemming device comprising</u>:

<u>said</u> rough harvest—(V), an extractor system (5) for <u>and</u> extracting the juice and the grapes—(B) detached from the stems with the <u>a</u> crop package—(1); and,

<u>a stemmer being located</u>= downstream, <u>a stemmer (6, 6')</u> and being provided with an inlet that communicates in communication with the <u>a</u> sloping end of the <u>said</u> extractor system, said stemmer enabling the hacking of the bunches (G) forming the <u>a</u> remaining part of the <u>a</u> harvest and the rejection of the stems and plant and other undesirable waste (D).

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- 3. (Currently amended) Method according to claim 1, characterized in that the extraction of the wherein said step of extracting juice and grapes detached by the crop package is achieved comprised of using a conveyor screen-(5).
- 4. (Currently amended) Method according to one of claims 1 or 3, characterized in that the hacking of bunches not picked off Claim 1, wherein said step of picking-off of grape bunches is achieved comprised of using a stemmer (6, 6') of the type with a latticed rotating drum (6a) containing a rotary stripping scraper (6b).
- 5. (Currently amended) Method according to any of claims 1, 3 or 4, characterized in that the Claim 4, wherein said stemmer (6') of the destemming system (5-6') or of each destemming system is placed perpendicular to the an extractor or sorter (5) of said system(s) of a destemming system.
- 6. (Currently amended) Method according to any of claims 1, 3 or 4, characterized in that the Claim 5, wherein said extractor (5) et the and said stemmer (6) are placed one after the other another in an horizontal or roughly generally horizontal position.
- 7. (Currently amended) Device according to claim 2, characterized in that the wherein said extractor (5) consists system is comprised of a conveyor screen executed in the form formed of an endless belt provided with a mesh and holes sized so as let through only the juice and grapes already detached by the crop package (1).
- 8. (Currently amended) Device according to one of claims 2 or 7, characterized in that the Claim 2, wherein said stemmer (6, 6') is of the type containing has a latticed rotating drum (6a) and a rotary stripping scraper (6b) housed inside said latticed rotating drum.

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- 9. (Currently amended) Device according to claim 8, characterized in that the wherein said latticed drum (6a) and the stripping scraper (6b) of stemmer (6, 6') turn in a reverse direction.
- 10. (Currently amended) Device according to one of claims 2, 7, 8 or 9, characterized in that the Claim 2, wherein said extractor or sorter (5), or each extractor (5) of the destemming system (5, 6'), system is installed parallel to the direction of supply of the machine on which said device extractor system is installed, while the said stemmer (6') is being mounted at an angle from said extractor (5) system.
- 11. (Currently amended) Device according to any of claims 2, 7, 8, 9 or 10, characterized in that the Claim 2, wherein said stemmer (6') of the destemming system (5, 6'), or of each destemming system is placed perpendicular to the said extractor or sorter (5) of said system(s) system.
- 12. (Currently amended) Device according to one of claims 10 or 11, characterized in that Claim 10, further comprising:
- a transporting means (7) transports for the harvest from the an outlet of the said extractor or sorter (5) system to the an inlet of the said stemmer (6').
- 13. (Currently amended) Device according to claim 12, characterized in that <u>wherein</u> said transporting means consists <u>is comprised</u> of a header auger (7).
- 14. (Currently amended) Device according to any of claims 2, 7, 8 or 9, characterized in that the Claim 2, wherein said extractor (5) et system and said stemmer (6) are placed one after the other another in an horizontal or roughly generally horizontal position.
- 15. (Currently amended) Device according to any of claims 2 or 7 through 13, characterized in that Claim 2, further comprising:

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a suction means, for example consisting being comprised of an aspirator (9) is arranged above the said extractor or sorter (5) system.

16. (Currently amended) Harvesting machine, characterized in that it comprises comprising: at least one, and preferably two destemming systems (5-6 or 5-6') devices according to any of claims 2, or 7 through 15, Claim 2, installed between the a sloping end of the harvesting conveyors (4) and harvest collection bowls (3).

17. (Currently amended) Harvesting machine according to claim 16, characterized in that the wherein said extractor or sorter (5) of the desterming system (5-6 or 5-6) system is integral with the a frame of said machine, while the thereof, said stemmer (6) and the an aspirator (9) are being mounted on the on the a casing of the harvest collection tipping bowls (3).

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ABSTRACT OF THE DISCLOSURE

The invention relates to a destemming device to be is installed on a harvesting machine, between the sloping end of the harvesting conveyors—(4) and the harvest collection bowls—(3) pertaining to the machine. Said The destemming device is characterised in that it comprises includes, upstream in the direction of the supply of the rough harvest—(V), an extractor system—(5) for extracting the juice and the grapes—(B) detached from the stems by the crop package—(1); and, downstream, a stemmer (6) provided with an inlet that communicates with the sloping end of the extractor system—said . The stemmer enabling enables the hacking of the bunches—(G) forming the remaining part of the harvest, and the rejection of the stems, plant waste and other undesirable products—(D).